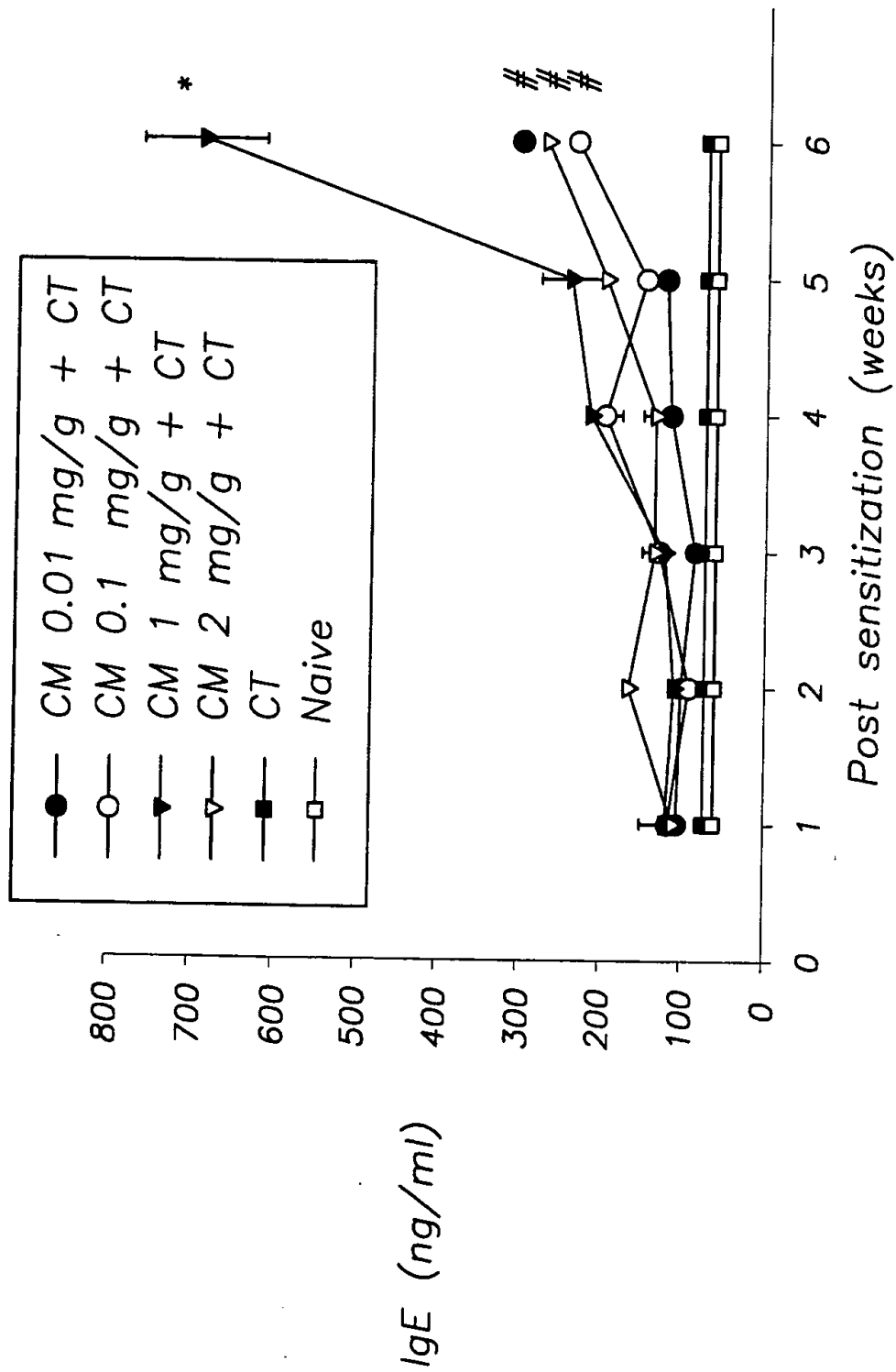
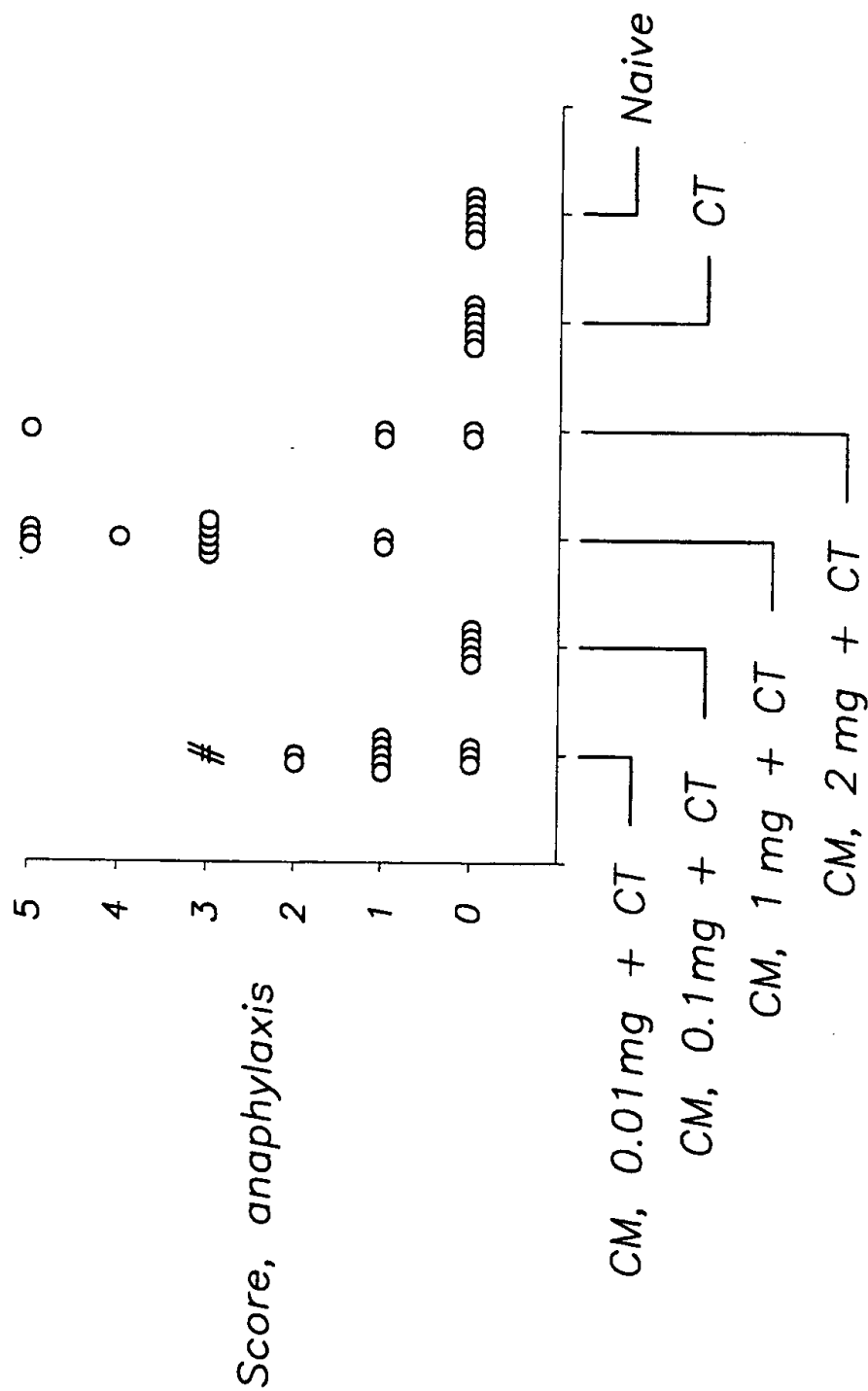


FIG. 1

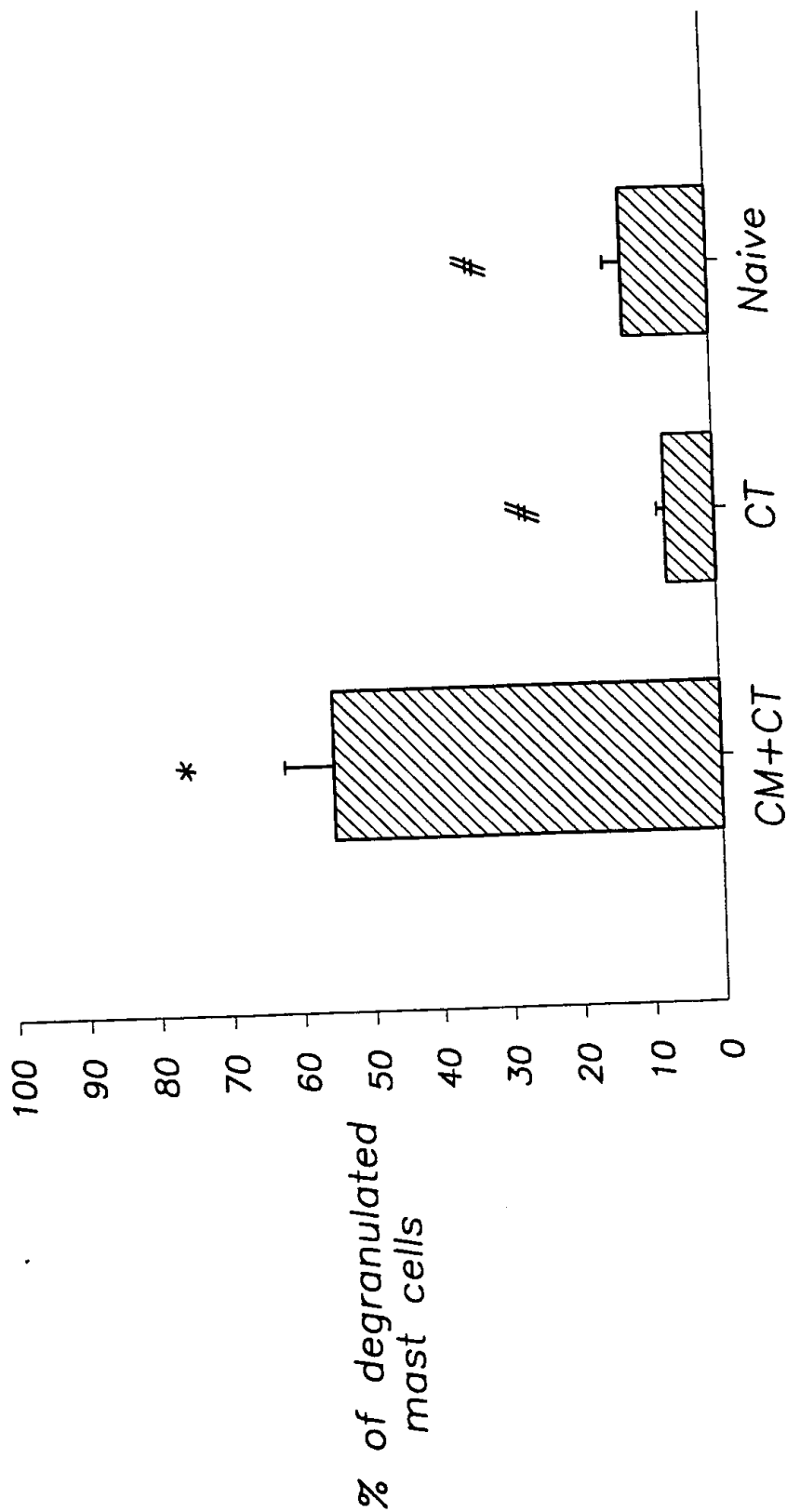


##  
##  
\*



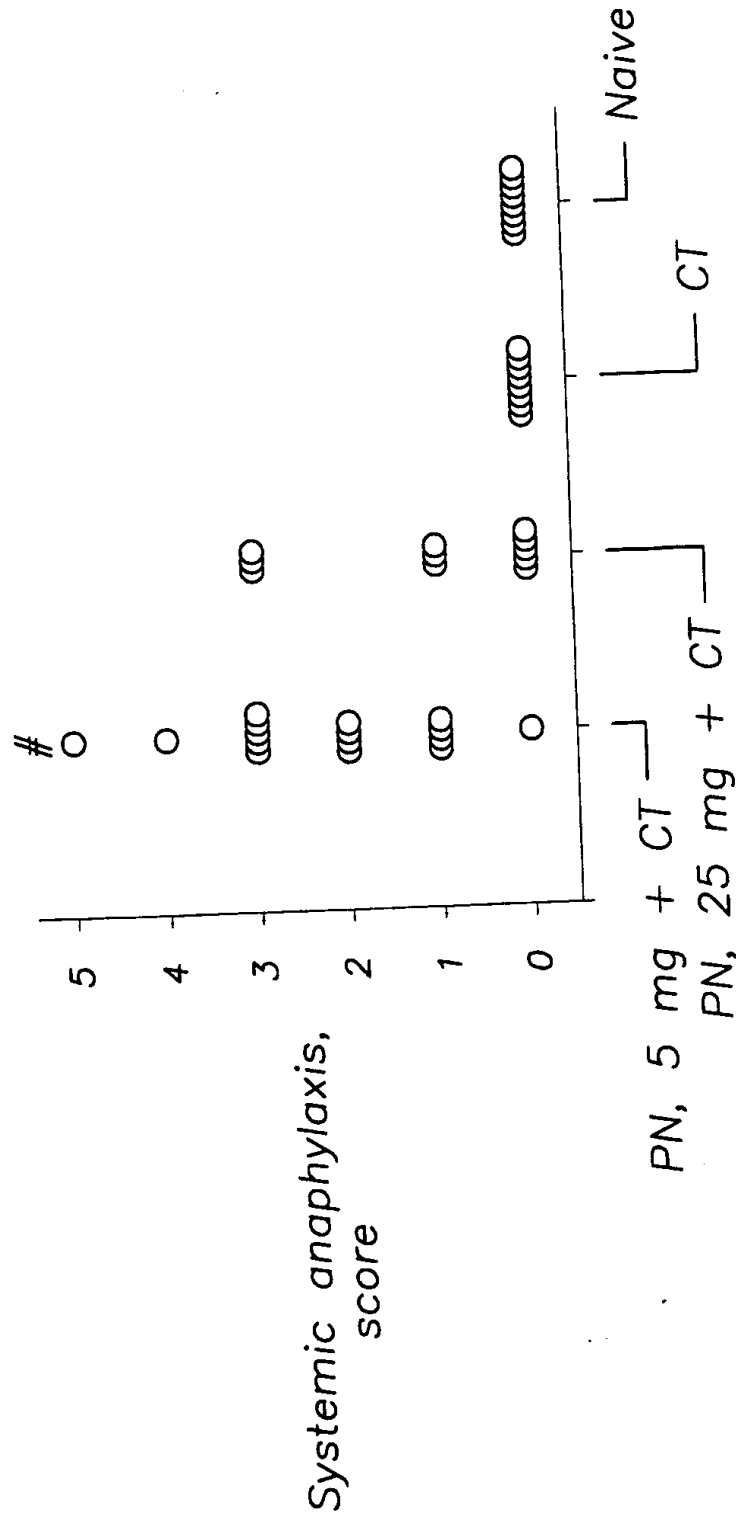
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FIG. 3



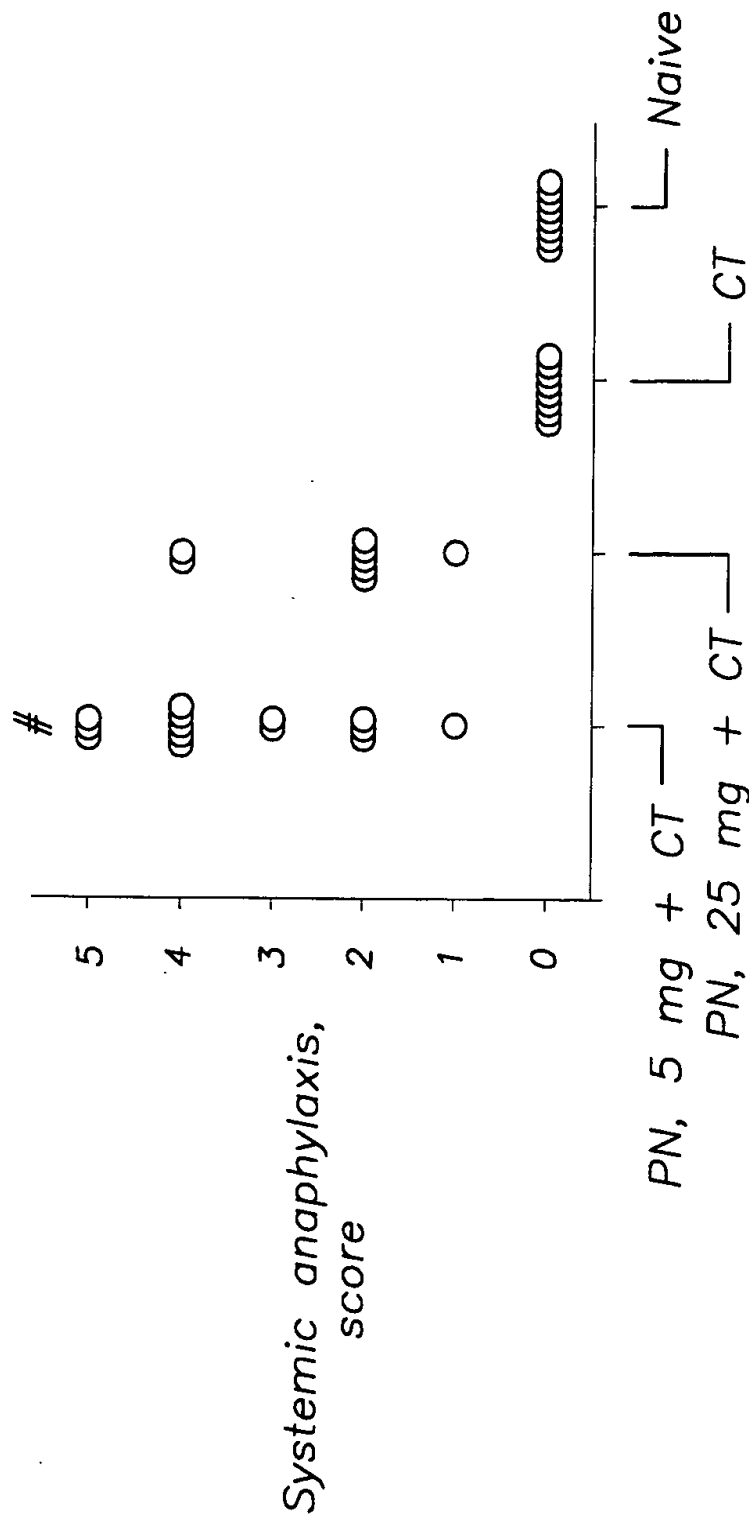
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FIG. 4A (Week 3, first challenge)



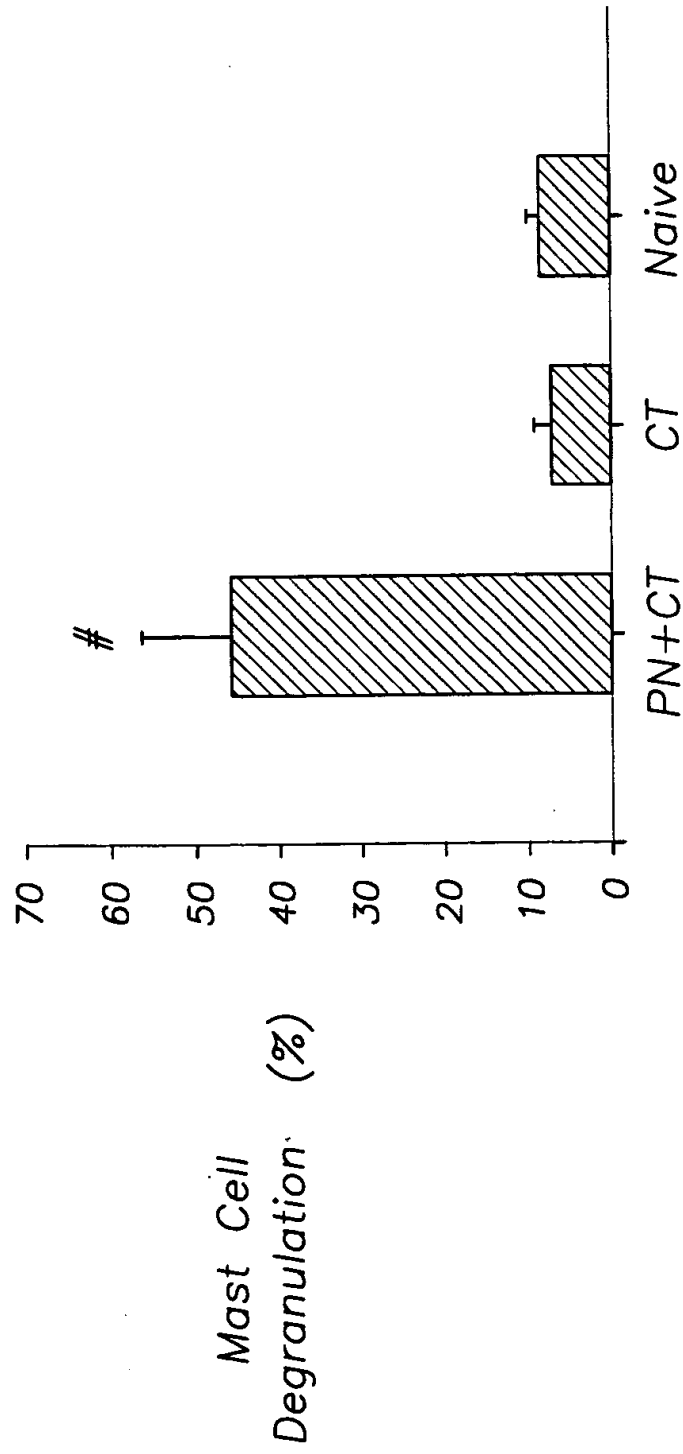
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FIG. 4B (Week 5, re-challenge)



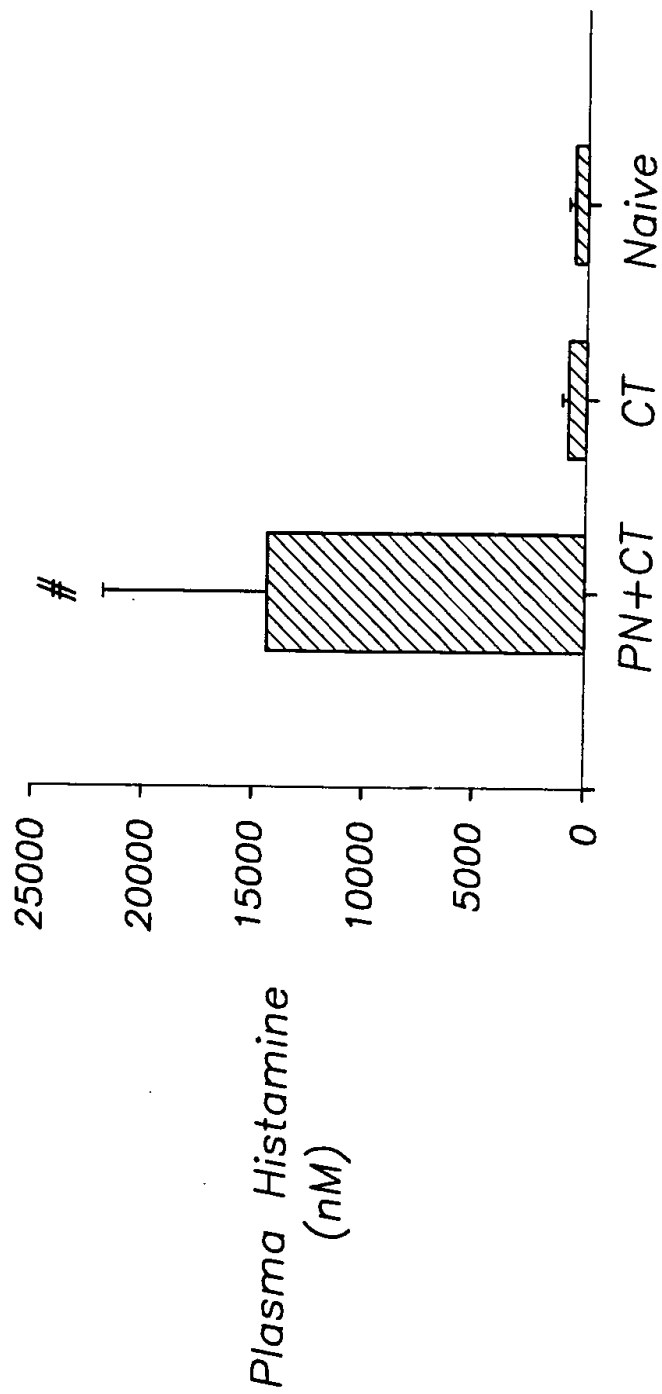
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FIG. 5A



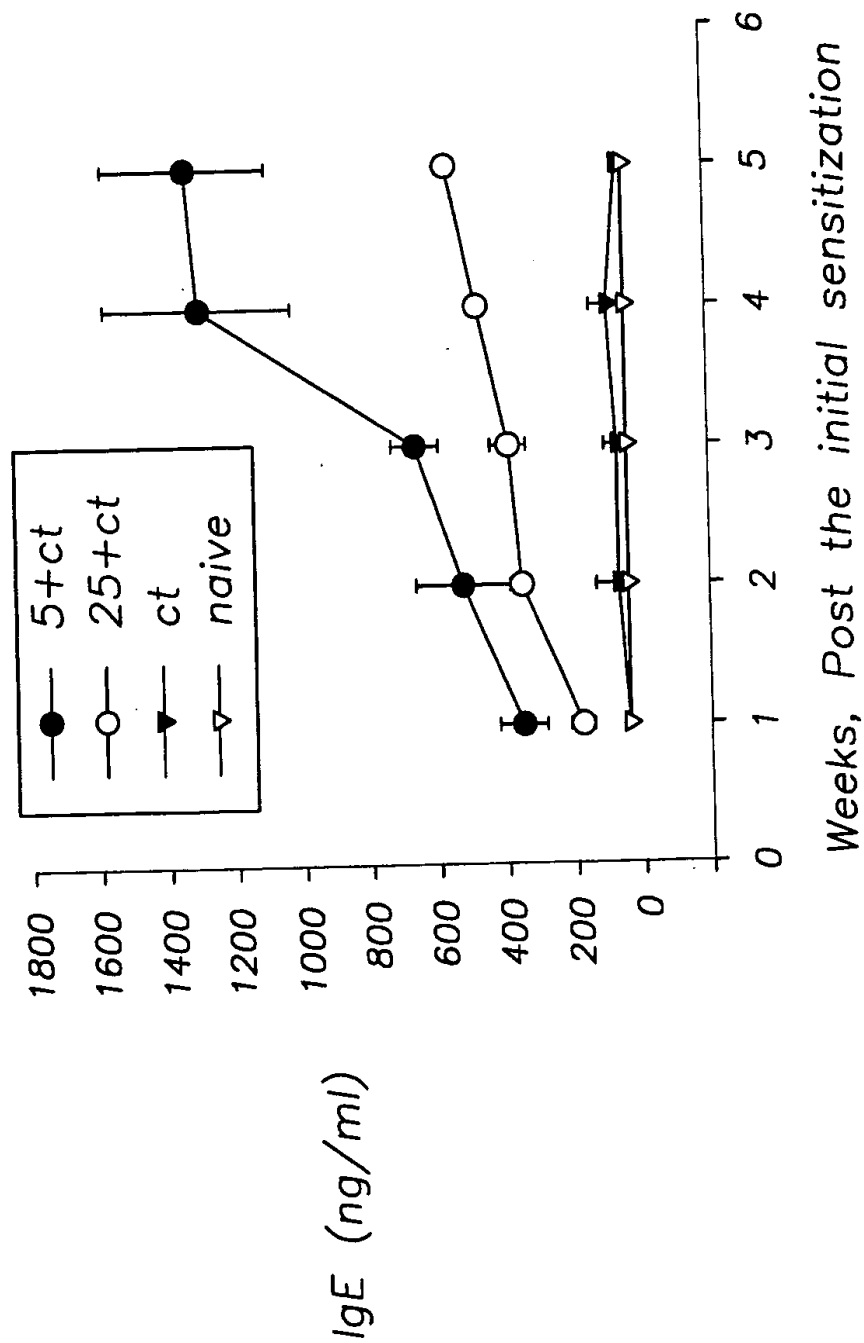
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FIG. 5B



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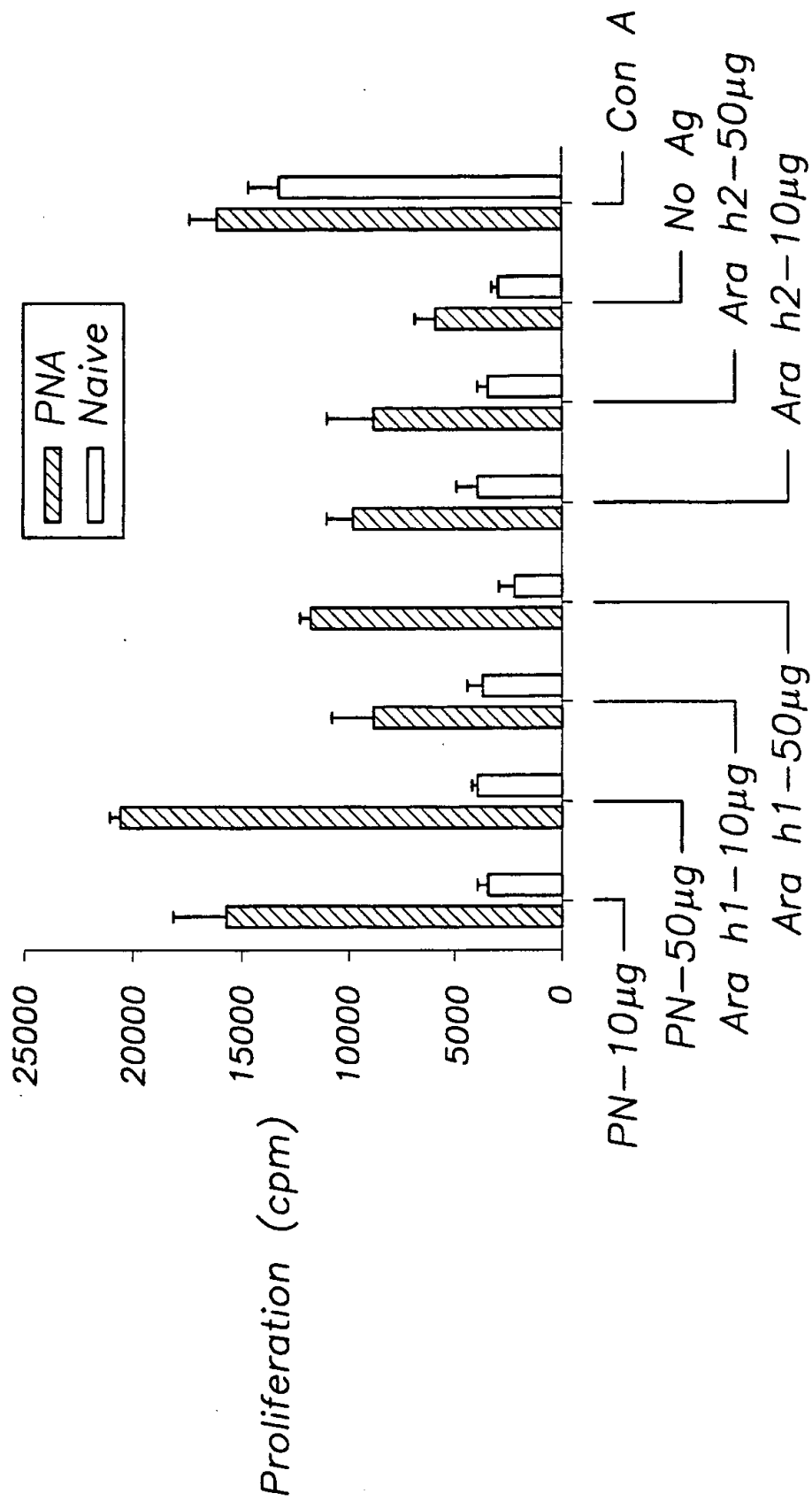
FIG. 6





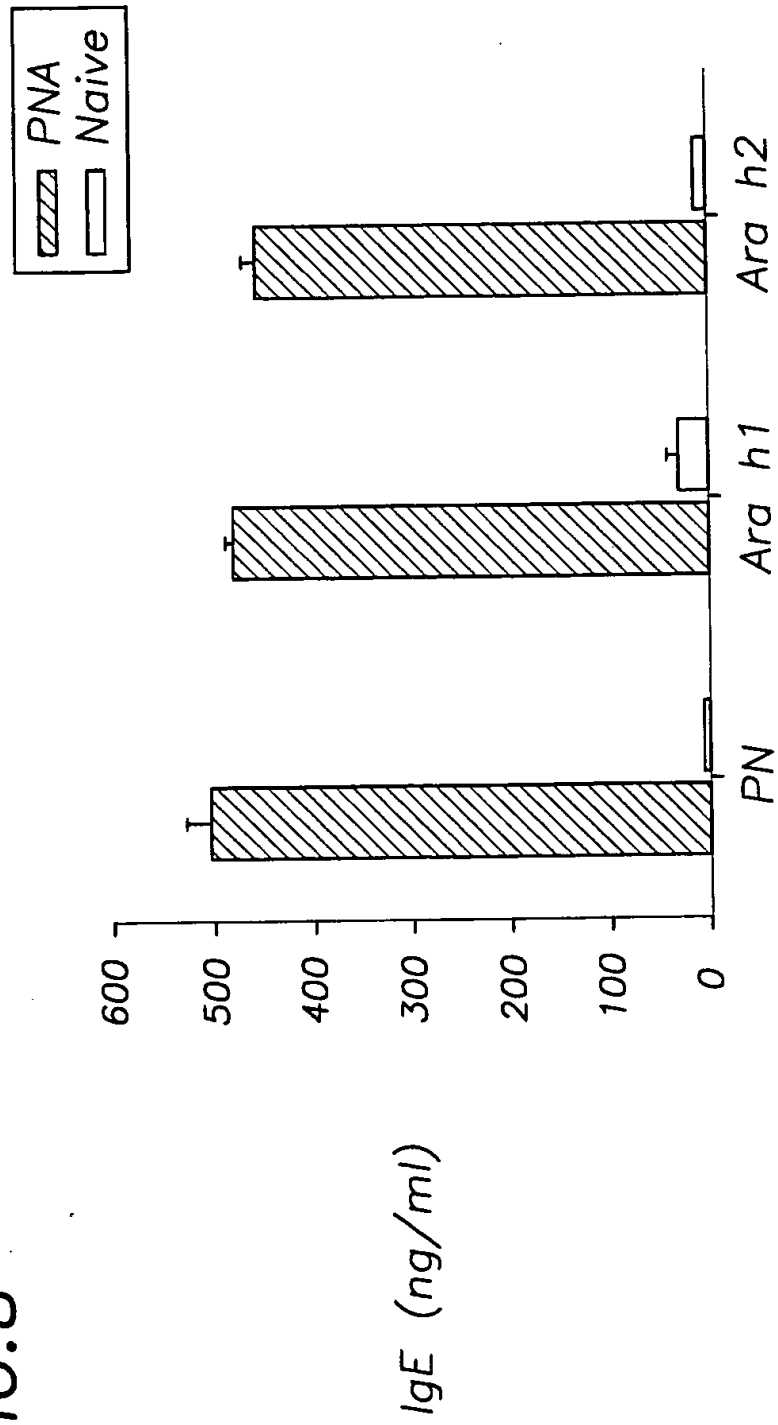
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FIG. 7



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FIG. 8



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FIG. 9A

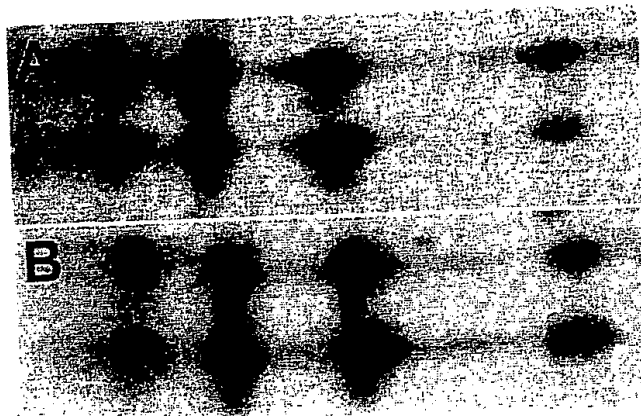
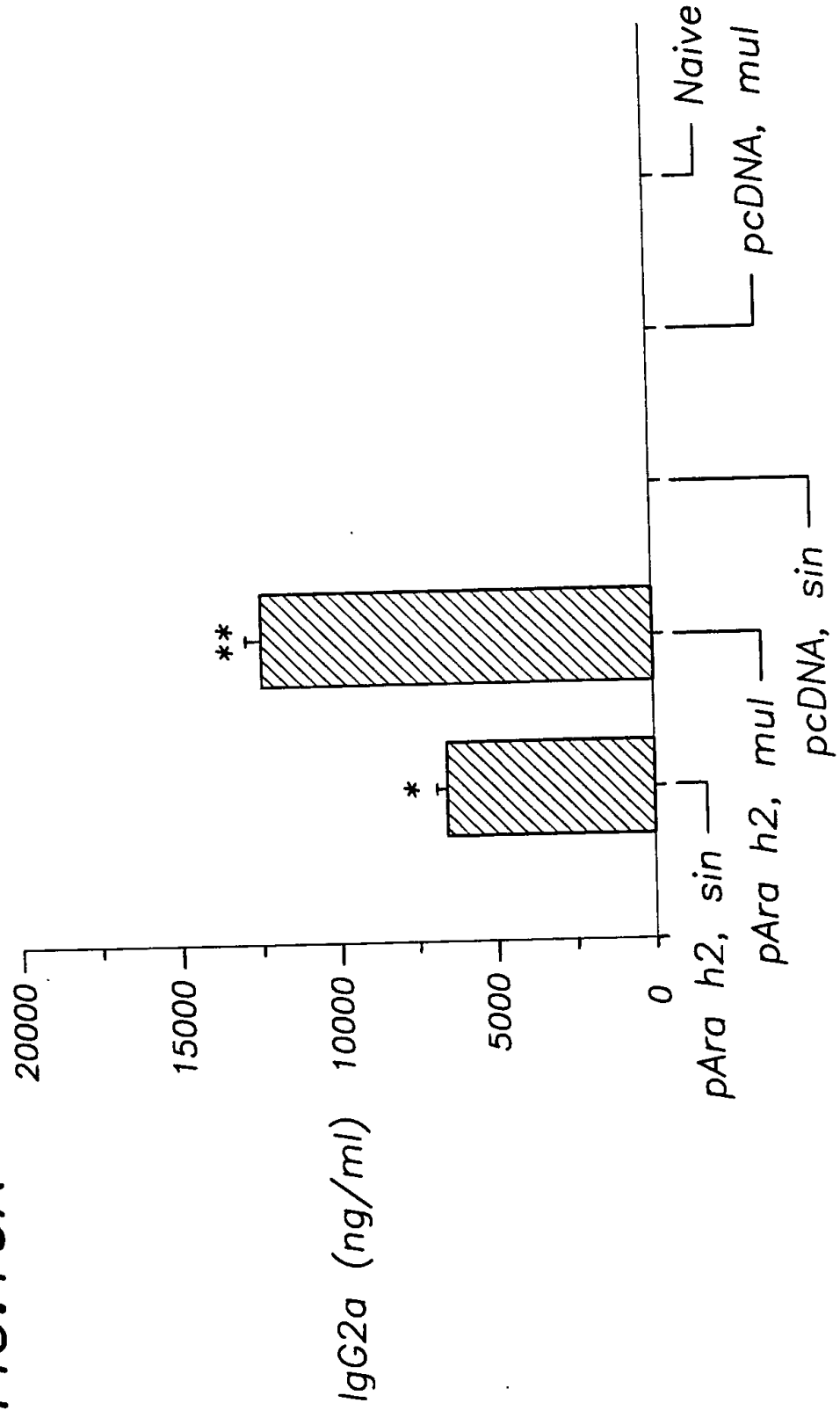


FIG. 9B

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FIG. 10A



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FIG. 10B

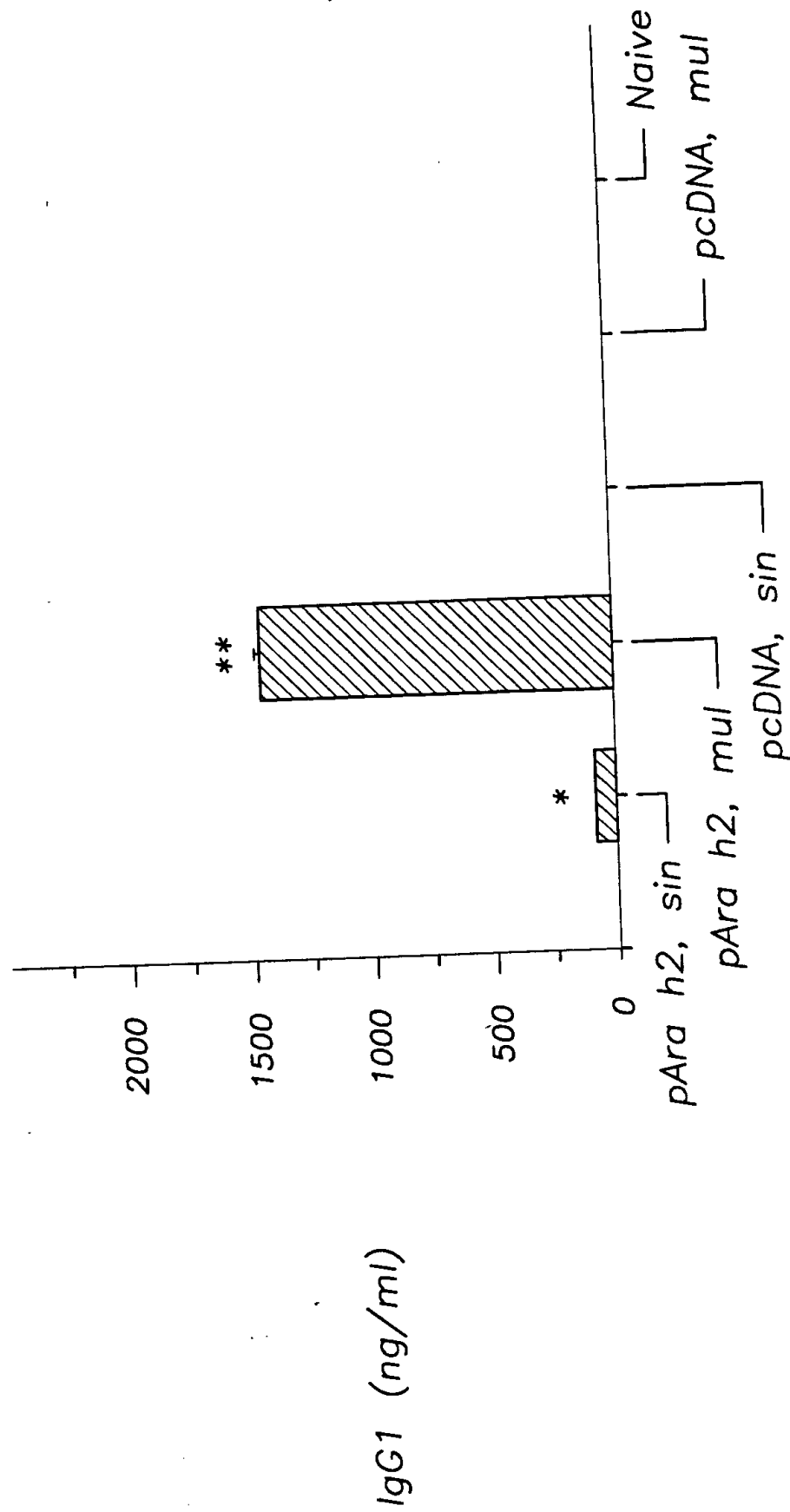


FIG. 11

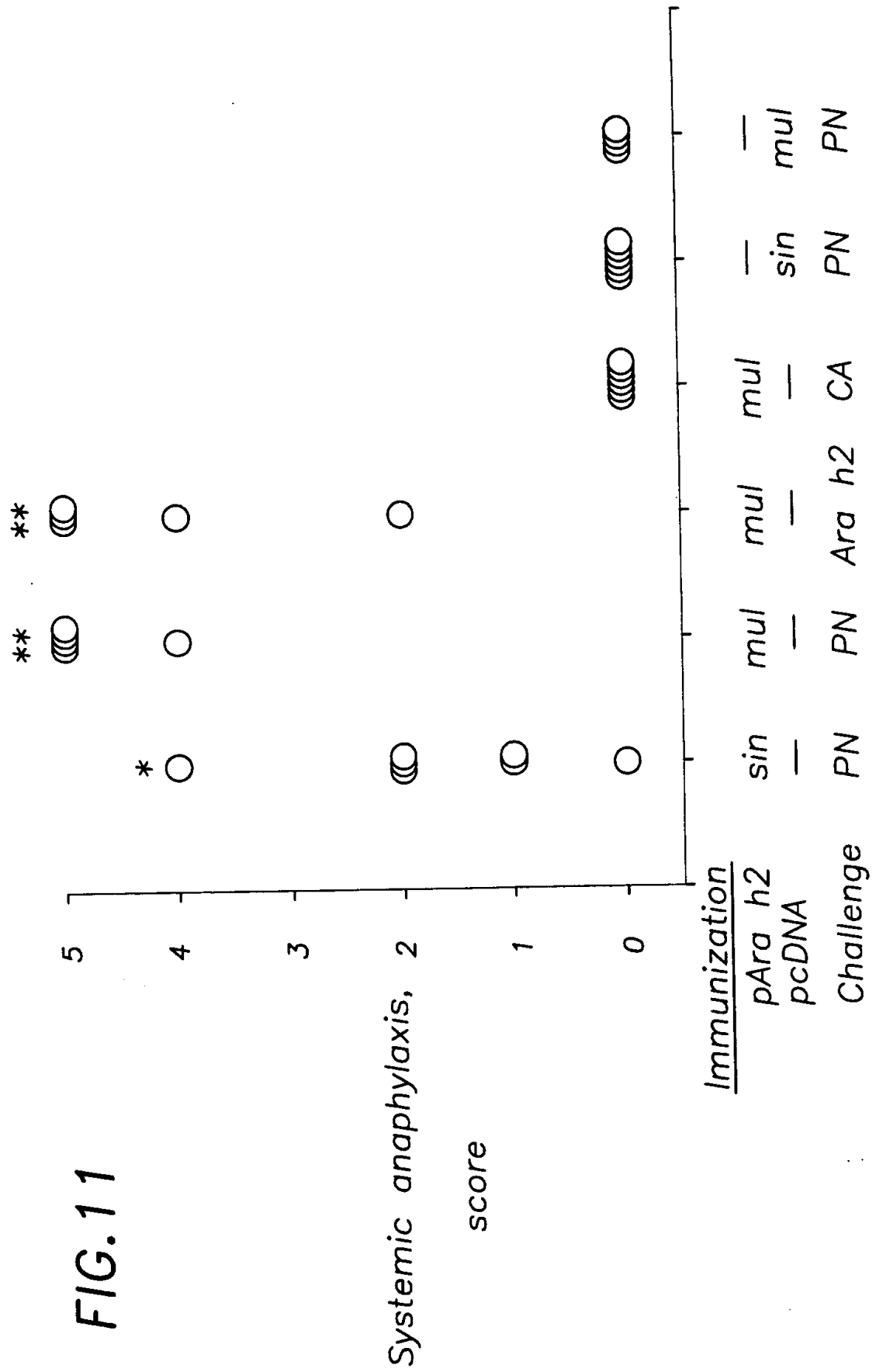


FIG. 12

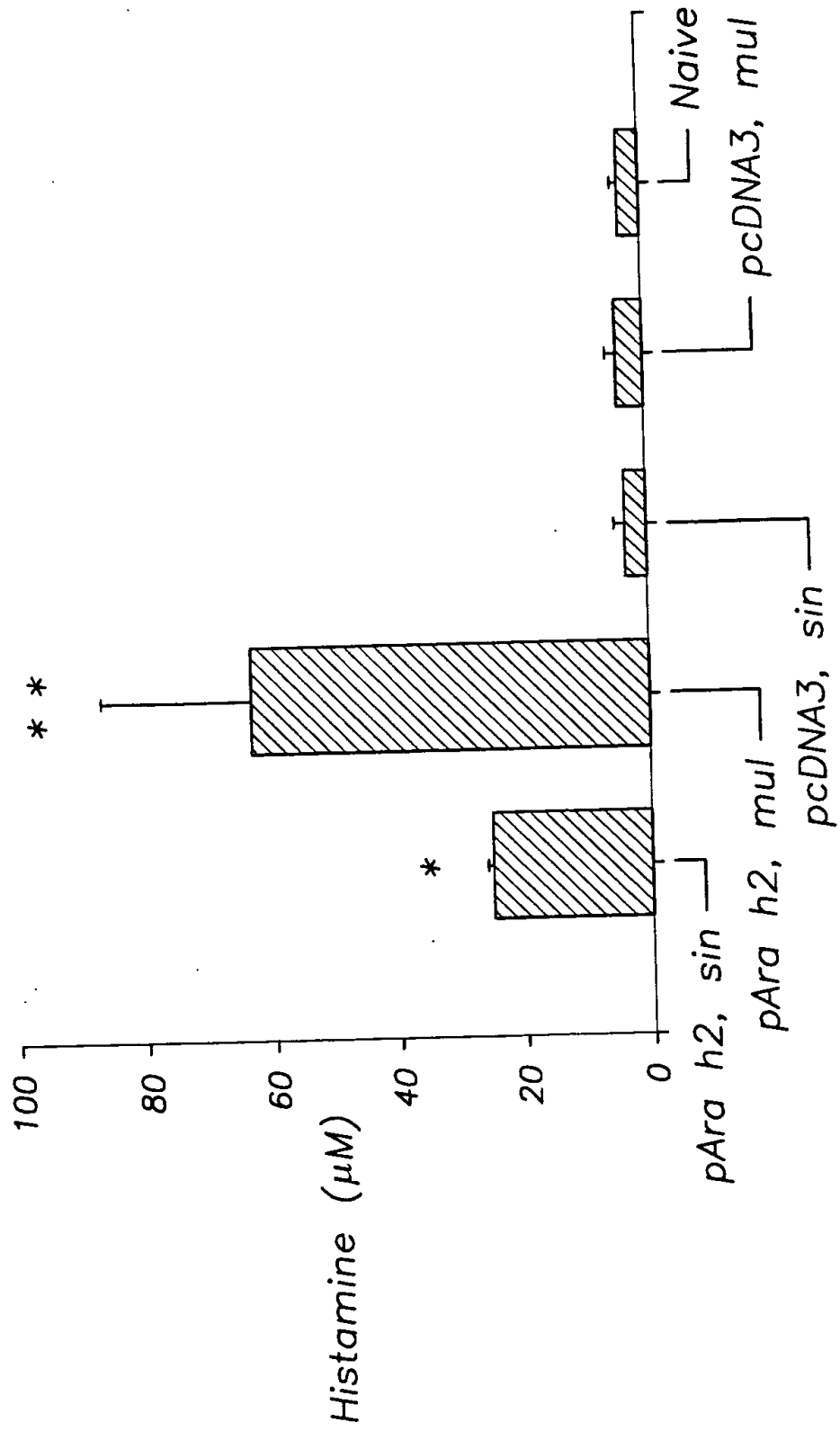
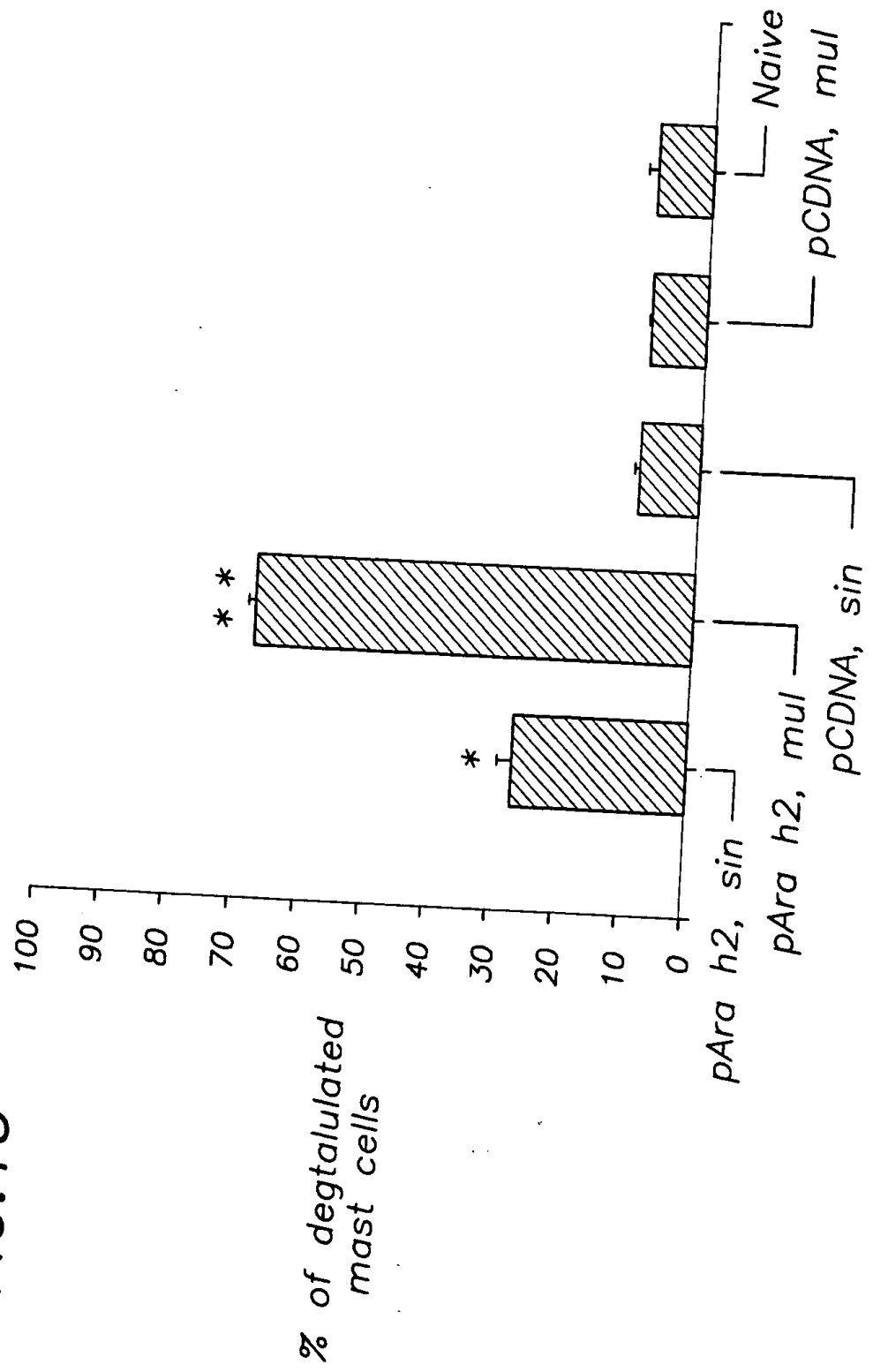


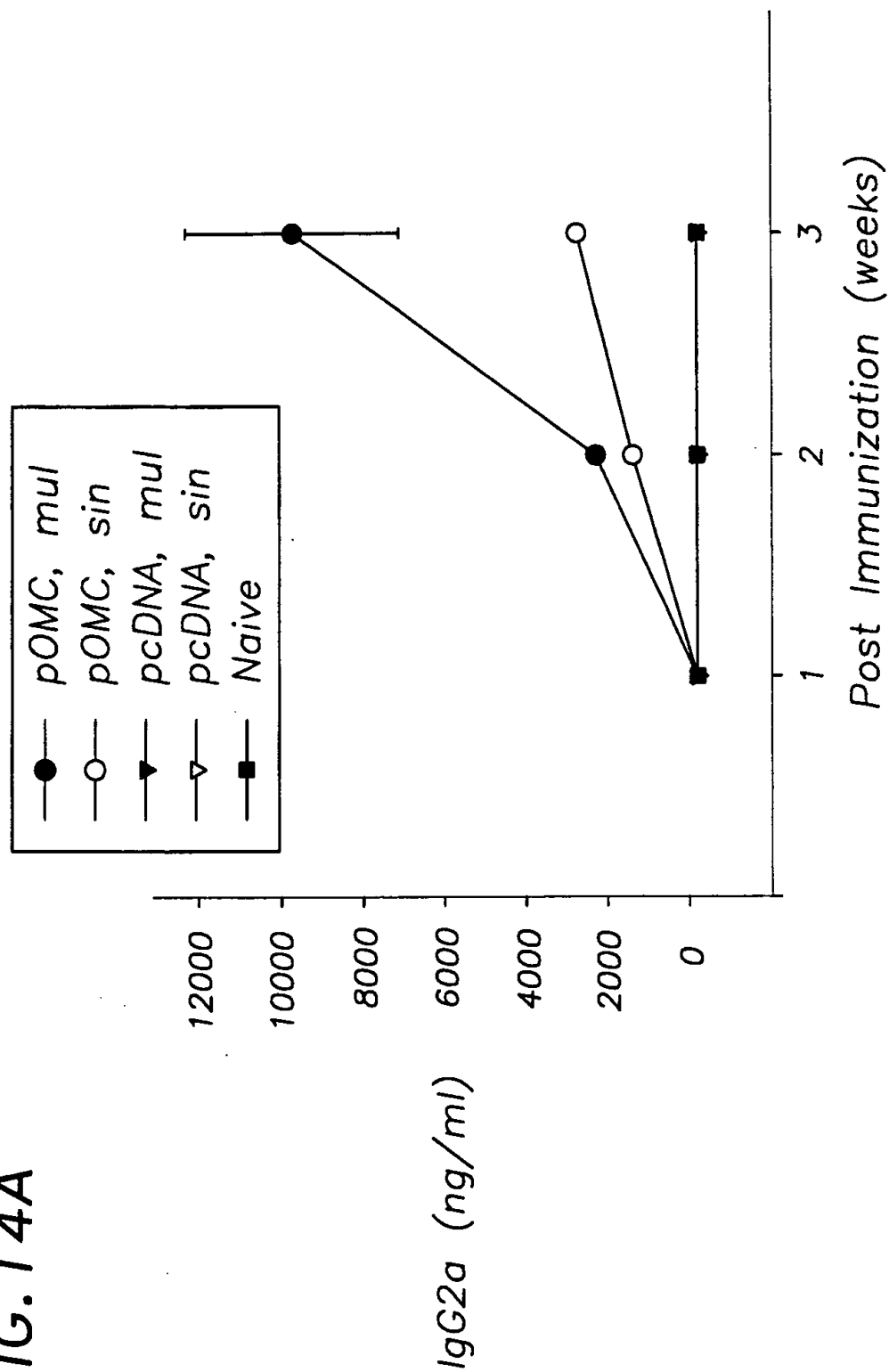
FIG. 13





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FIG. 14A



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FIG. 14B

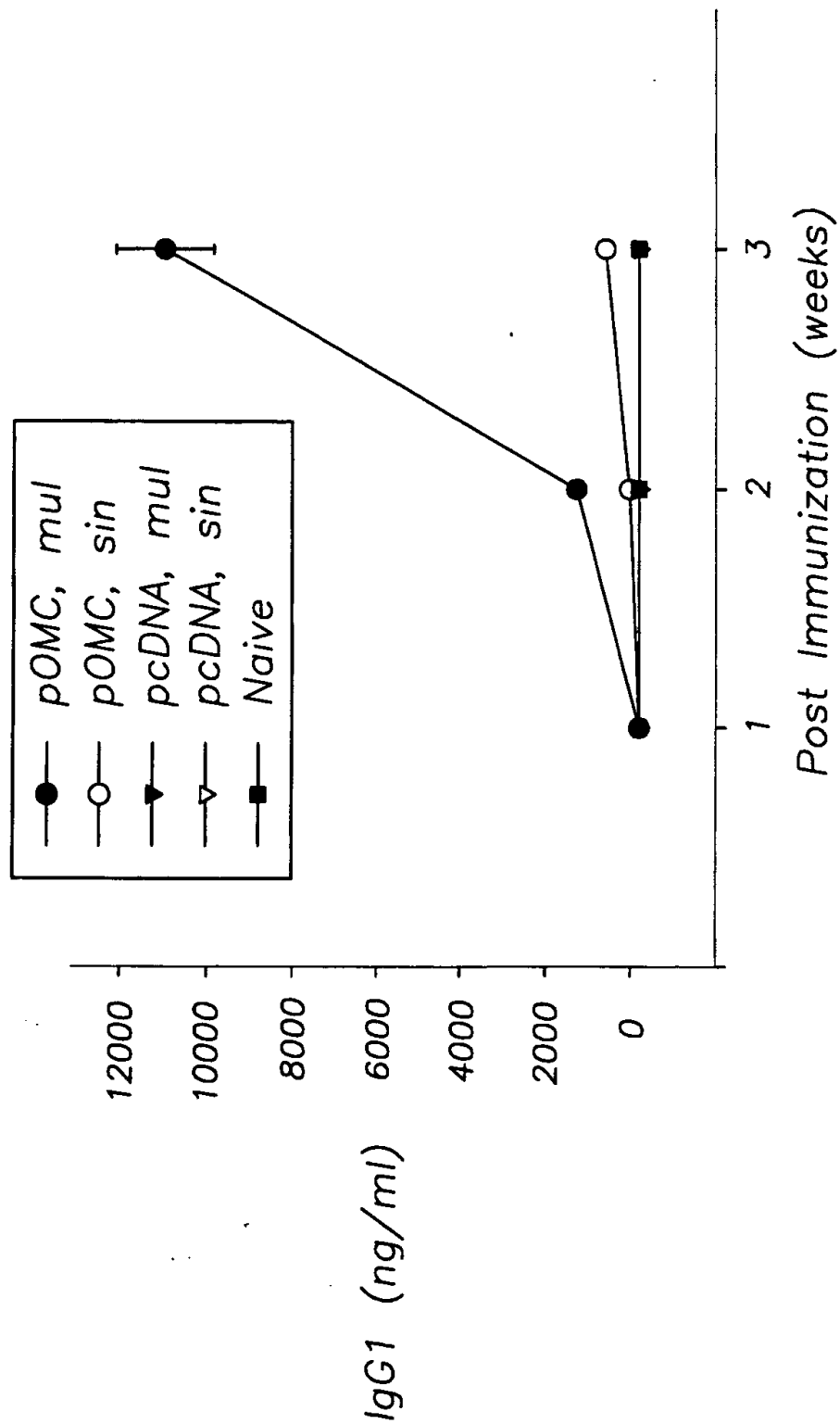
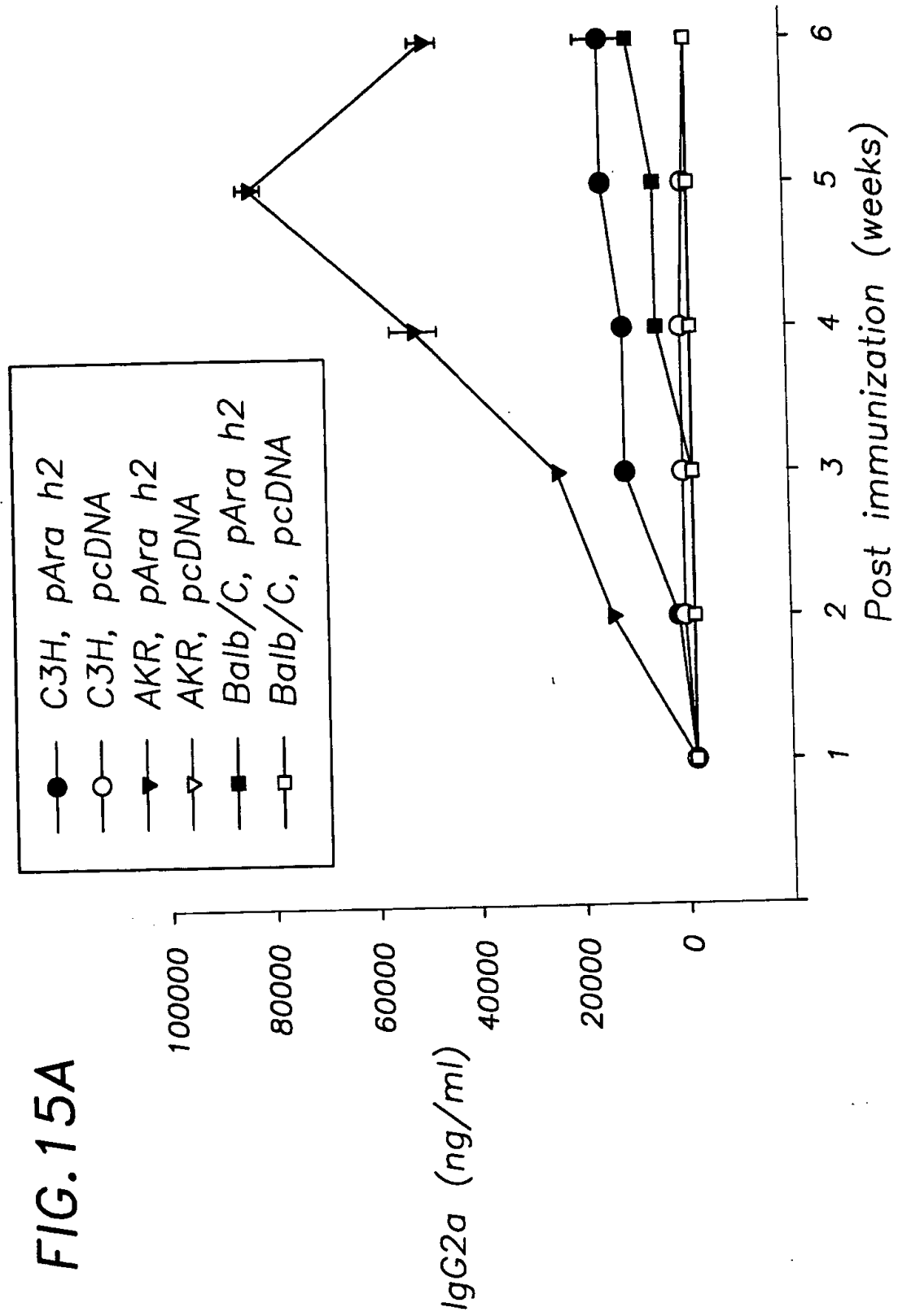


FIG. 15A



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FIG. 15B

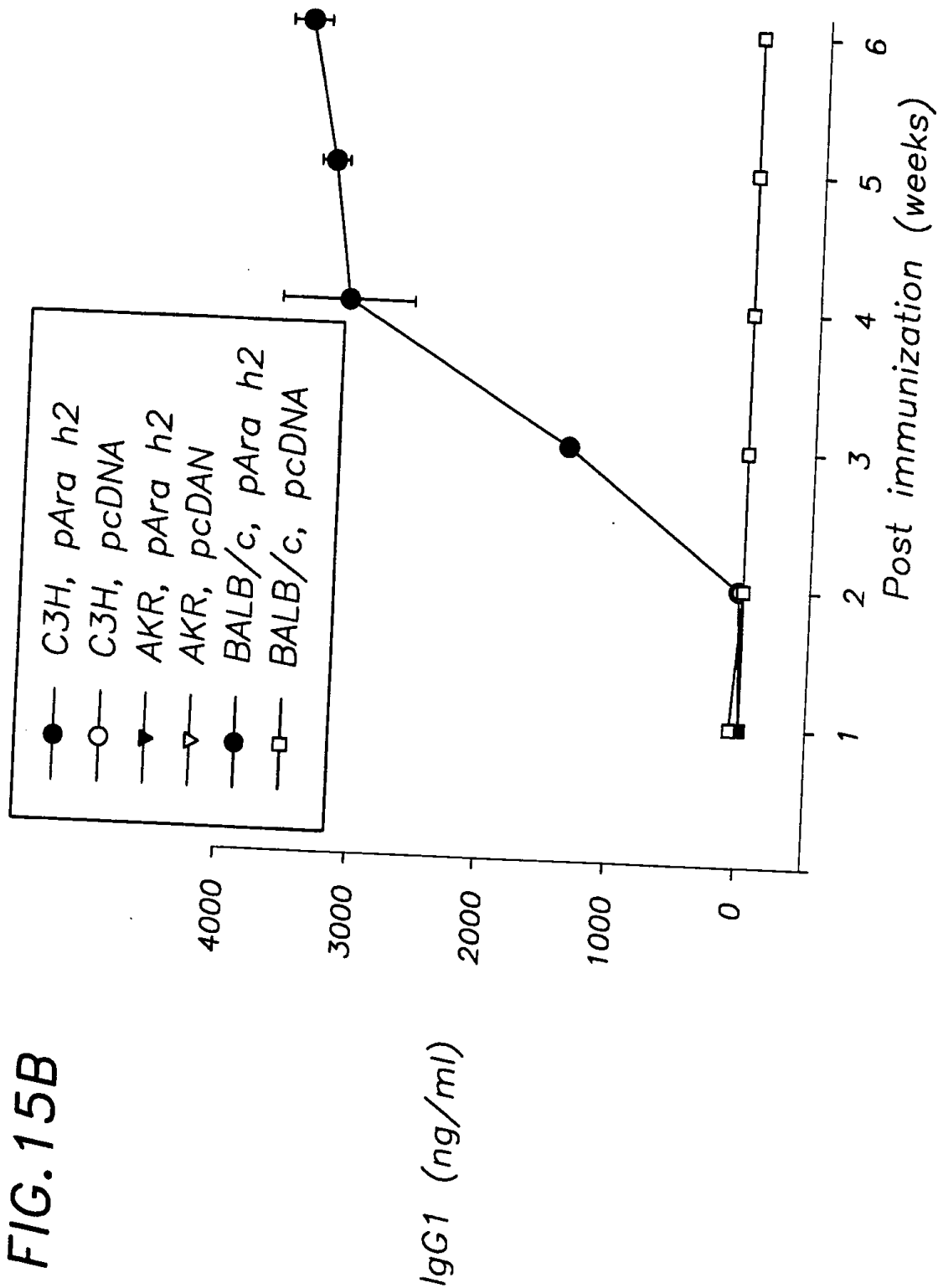


FIG.16A

PEPTIDE →	Ara h	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
PATIENT 1	5.3	0.9	2.9	3.8	7.8	0.9	0.9	0.7	1	0.9	0.7
PATIENT 2	4.3	0.7	1.4	1.3	2.4	0.9	0.8	0.7	0.7	1	0.7
PATIENT 3	2.8	1	1.8	1.6	2.4	1.1	1.1	1.4	1.7	1.3	1.3
PATIENT 4	1.8	1	0.6	0.8	2.1	1	0.5	0.7	1.4	0.7	0.8
PATIENT 5	5.5	2.1	1.1	0.7	0.8	1	1.3	0.7	1.5	0.5	0.6
PATIENT 6	20.8	1	1.6	2.2	1.7	1.4	1	1.8	2.7	2.6	1.2
PATIENT 7	1.5	0.7	0.5	0.7	0.9	0.9	0.7	0.9	1.1	0.8	0.7
PATIENT 8	6.5	2.4	1.2	1.3	1.1	0.9	1.1	1.4	0.8	0.9	0.8
PATIENT 9	9.2	1.1	1.1	6.3	1.2	1.5	1.2	1	1.2	1.3	0.8
PATIENT 10	11.7	0.7	0.6	0.7	0.6	1.3	0.5	0.6	0.9	0.6	0.5
PATIENT 11	2.1	0.7	0.7	0.5	0.6	0.5	0.3	0.6	0.5	0.5	0.5
PATIENT 12	1.1	1.4	1.6	1.8	2.8	1.5	1.5	1.4	1.3	1.5	1.2
PATIENT 13	0.9	1.3	1.9	1.9	2.8	2	1.6	2.4	1.9	1.5	1.5
PATIENT 14	4.8	1.2	1.6	1.5	1.9	1.6	1.9	1.3	1.6	1.8	1.3
PATIENT 15	6.9	0.7	1.1	1.8	2.1	1.1	1	1.1	1.1	1	0.8
PATIENT 16	10.2	0.7	1.6	2.7	10.9	2	0.9	2.1	2.1	1.4	1
PATIENT 17	4.2	1.4	1.6	2.8	2.6	1.3	1.4	1.7	1.6	1.1	1.3
PATIENT 18	3.9	1.5	1.7	2.9	3	1.5	1.2	1.3	1.3	1.9	1
PATIENT 19	3.4	1.5	1.2	2.6	1.4	1.7	0.9	1	1.4	1.2	1.1

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TO  
FIG.16B

FIG.16B

#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	#21
0.9	1	0.8	1.2	0.9	1	1.2	1	5	7.3	6.6
0.7	0.6	0.5	1.1	0.7	0.7	0.7	0.5	1.9	4.3	3.4
1.7	0.9	0.9	1.3	1.2	1.4	1.2	1.1	1.1	1.4	1.4
0.7	0.5	0.6	1	1	0.7	0.7	0.7	1	1.4	1.6
0.7	0.3	0.8	0.8	0.7	0.5	0.5	0.6	4.4	2.2	1.6
1.4	1.2	1.2	1.1	0.9	0.7	1.4	3.9	0.6	0.7	0.9
1	1	0.7	0.8	1.1	1.1	0.7	1.2	1.2	1.4	1.4
1.2	1.3	1	1.2	1.4	1	1.1	3.5	1.3	1	1.2
0.8	1.5	0.9	0.8	0.9	1.1	0.7	1.9	1.4	1.3	1.4
0.5	0.8	0.7	0.4	0.5	0.7	0.7	0.6	1.6	1.2	1.1
0.8	0.5	0.7	0.7	0.4	0.4	0.7	0.6	0.6	0.5	0.8
1.1	1	1.1	1.4	1.4	1.1	1.3	1.2	1.3	1.9	2
1.7	1.9	1.4	1.2	1.5	1.3	1.5	2.3	1.6	1.3	1.8
1.1	1.3	0.9	0.9	1.2	1.1	1.5	5.1	3.5	2.2	2.1
1	1	1.2	1	0.7	1.2	1.4	2.2	1.2	1.1	1.4
0.8	0.9	0.8	0.6	0.8	0.7	0.7	1.6	3	2.5	5.8
1.2	1.7	1.7	1.1	1.7	1.5	1.6	1.2	1.4	1.2	1.3
1.3	1.2	0.9	1.7	1.7	1	1.6	2.1	3.4	3.8	6.3
1	1.3	1.1	1.4	1.6	1.3	1.3	1.3	1.4	1.5	1.7

FROM  
FIG.16A

FIG. 16B is a table showing the relationship between the values of the parameters #11 through #21 and the values of the parameters #1 through #10. The table is organized into two main sections: the top section shows the values of the parameters #11 through #21 for each of the parameters #1 through #10, and the bottom section shows the values of the parameters #1 through #10 for each of the parameters #11 through #21. The values are given in decimal form, and the table is organized into two main sections: the top section shows the values of the parameters #11 through #21 for each of the parameters #1 through #10, and the bottom section shows the values of the parameters #1 through #10 for each of the parameters #11 through #21.

FIG. 16C

#22	#23	#24	#25	#26	#27	#28	#29
6	3.4	4.6	6.4	7.5	5.1	11.3	0.9
3.6	1.4	1.4	1.5	1.9	1.5	2.2	0.5
2.1	1.1	0.7	1.2	1.2	1.3	0.9	1.2
2	1.2	1.1	1.4	1.4	1.5	1.1	0.6
2.5	1.4	1.7	1.9	2.2	1.7	3.3	0.5
0.8	1	0.7	0.9	0.6	0.7	1	1.5
2.3	1.5	1.6	1.3	1.5	1.4	1.8	0.6
1	1.1	1.8	1	1.1	1.5	1.3	1.3
0.5	1.5	1.5	1.2	1.2	1.6	1.1	2
1.3	1.3	0.7	1.5	1.3	1.5	1.4	0.6
0.6	0.6	0.7	0.7	0.8	0.8	0.5	0.5
1.5	1.3	1.3	1.7	1.8	1.1	1.3	1.4
1.6	1.5	1.7	1.6	1.7	2.2	1.3	1.4
1.9	1.6	1.5	2.8	3.3	2	2.7	1.1
1.4	0.9	1.2	1.5	1.5	1.4	1.1	0.9
16.8	1.4	1.7	4.9	3.3	5.3	12.1	1.4
1.7	1.2	1.2	1.9	1.6	1.4	2.9	1.2
7	1.6	1.8	2.7	3.5	4.3	5.1	1.6
2.4	1.4	1.6	1.5	1.3	1.2	1.7	0.9

FROM  
FIG. 16B

# FIG.17A

Modified Ara h 1:

MASMTGGOMGRDPNSSS THAKSSPYQAKT ENPCAQRCLQSCQQEPDALK  
 QKACESRCKLEYDPRCAYDPRGHTGTTNQSRPPGEATRGRQPGDYDDARRQPPRAEEGGR  
 WGPAGPREREREEDARQPREDWARP SHQQPRKARPEGREGEGEWGTPGSHVREETSRNNP  
 FYFPSRRFSTRYGNQNGRIRVLQRFDQRSRQFNQNHRIVQIEAKPNTLVLPKHADADN  
 ILV IQQGQATVTVANGNNRKSFNLDEGHALRIPSGFISYILNRHDNQNLRVAKISMPVNT  
 PGQMEDFFPASSRDQSSYLQGFARNTLEAAFNAAEANEIRRVLLEENAGGEQEARQGRRWS  
 TRSSENNEGVI VKVSKEHVEELTKHAKSVSKKGSEEEGDITNPANLREGEPLSNNFGKL  
 AEVKPDKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVNVKGTGNLELVAVRKEQ  
 QQRGRREEEEDDEEEEGSNREVRA<sup>Y</sup>TARLKEGDVFI<sup>MPAAHPVA</sup>INASSELALLGFGIN  
 AENNHRIFLAGDADNV<sup>IDQIEKQAKALAA</sup>PGSGEQVEKL<sup>IKNQKESHFVA</sup>ARPQSQSQSP  
 SSPEKESPEKEDQEEENQGGKGPLLSILKAFN KLAAALEHHHHHH (SEQ ID NO. 109)



**FIG.17B**

Modified Ara h 2:

MASMTGGOMGRDPNS ARQQAELQGDRRCQSQLARANLRACEAHLMQKI Q  
ADEDSYERAPYSPSQAPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRC  
MCEALQQI MENQSDRLQCAQEQFKREARNL PQQCGLRA PQRCDADVES  
GGRDRY AAALEHHHHH (SEQ ID NO. 108)

# FIG.17C

Modified Ara h 3:

M ASFRQQPEENACQFQRLNAQRPDNR IESEGGY IETWNANNQEFECAGV  
ALSRLVLRNALRRPFYSNAPQE IFIQQGRGYFGLIFPGCPRHYEETQGRRSQSRPP  
RRLQGEDSQQQRDSHQKVHRFDECDL IAVPTGVAFWLYNDHDTVAVAVSLTDINNNDNQ  
LDQFPRRFNLAGNTEQEFRLRYQQSQRRSLPYSPYSPQSPRQEEREFSPRGQHSRR  
ERAGQEEENEGGNI FSGFTPEALFQAFQVDDRQI VQNLRGETESEEEGA I VTVRGGLRAL  
SPDRKRRADEEEYDEDEYAYDEEDRRRGRGSRGNGIEET I CTASAKKNI GRNRSPDI  
YNPQAGSLKTANDLNL I LRLWLGPSAEYGNLYRNALFVAHYNTNAHSI IYRLRGRAHVQV  
VDSNGNRVYDEELQEGHVLVVPQNF AVAGKSQSENFYVAFKTD SRPSI ANLAGENSVID  
NLPEEVVANSYGLQREQARQLKNNNPFFKFVPPSQSQSPRAVA VDKLAAL EHHHHHH

(SEQ ID NO. 110)

FIG. 18

